



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M Street, S.W. WASHINGTON, D.C. 20460

Form Approved OMB No. 2070-0060

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DATA MATRIX

Date: December 15, 2017

EPA Reg. No./File Symbol: 71185-5

Page 1 of 7

Applicant's/Registrant's Name & Address:
Geo Logic Corporation
P.O. Box 3091
Tequesta, FL 33469

Product: EAC™ Oxytetracycline Manufacturing Use Product

Ingredient: Oxytetracycline Hydrochloride (CAS No. 2058-46-0)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.1550	Product Identity and Composition	45843001	Geo Logic Corp.	OWN	
830.1600	Description of Materials used to Produce the Product	45843001	Geo Logic Corp.	OWN	
830.1620	Description of Production Process	45843001	Geo Logic Corp.	OWN	
830.1670	Discussion of Formation of Impurities	45843001	Geo Logic Corp.	OWN	
830.1700	Preliminary Analysis	45843002	Geo Logic Corp.	OWN	
830.1750	Certified Limits	45843002	Geo Logic Corp.	OWN	
830.1800	Enforcement Analytical Method	45843002	Geo Logic Corp.	OWN	
830.1550, 830.1600, 830.1620, 830.1670, 830.1700, 830.1750, 830.1800, 830.1900	Addition of Alternate Formulation Technical Grade Active Ingredient (TGA) for "AgroSource Oxytetracycline Technical Fungicide/Bactericide Agricultural Oxytetracycline"	49623001	Geo Logic Corp.	OWN	
830.1550, 830.1600, 830.1620, 830.1670, 830.1700, 830.1750, 830.1800, 830.1900	Addition of Alternative Formulation Technical Grade Active Ingredient (TGA) for "EAC™ Oxytetracycline Manufacturing Product"	50473401	Geo Logic Corp.	OWN	
830.6302	Color	45843003	Geo Logic Corp.	OWN	
830.6303	Physical State	45843003	Geo Logic Corp.	OWN	
830.6304	Odor	45843003	Geo Logic Corp.	OWN	
830.6313	Stability to Normal and Elevated Temperatures, Metals and Metal Ions	45843003	Geo Logic Corp.	OWN	
830.6314	Oxidation/Reduction Chemical Incompatibility	NA			Not required. See Endnote 1
830.6315	Flammability	NA			Not required. See Endnote 2
830.6316	Explosibility	NA			Not required. See Endnote 3
830.6317	Storage Stability	45843003	Geo Logic Corp.	OWN	



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Page 2 of 7

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.6320	Corrosion Characteristics	45843003	Geo Logic Corp.	OWN	
830.7000	pH	45843003	Geo Logic Corp.	OWN	
830.7050	UV/Visible Absorption	46181301	Geo Logic Corp.	OWN	
830.7100	Viscosity	NA			Not required. See Endnote 4
830.7200	Melting Point/Melting Range	45843003	Geo Logic Corp.	OWN	
830.7220	Boiling Point/Boiling Range	NA			Not required. See Endnote 5
830.7300	Density/Relative Density/Bulk density	45843003	Geo Logic Corp.	OWN	
830.7370	Dissociation Constant in Water	45843003	Geo Logic Corp.	OWN	
830.7550	Partition Coefficient (n-octanol/water)	45843003	Geo Logic Corp.	OWN	
830.7840	Water Solubility	45843003	Geo Logic Corp.	OWN	
830.7950	Vapor Pressure	45843003	Geo Logic Corp.	OWN	
835.1230	Adsorption/Desorption (Batch Equilibrium)	47798306 TBD	Nufarm Americas	PAY	See endnote 6
835.2120	Hydrolysis	TBD	Nufarm Americas	PAY	See endnote 6
835.2240	Photodegradation in Water	TBD	Nufarm Americas	PAY	See endnote 6
835.2410	Photodegradation in Soil	TBD	Nufarm Americas	PAY	See endnote 6
835.4100	Aerobic Soil Metabolism	TBD	Nufarm Americas	PAY	See Endnote 6
835.4200	Anaerobic Soil Metabolism	TBD	Nufarm Americas	PAY	See Endnote 6
835.4300	Aerobic Aquatic Metabolism	TBD	Nufarm Americas	PAY	See Endnote 6
835.4400	Anaerobic Aquatic Metabolism	TBD	Nufarm Americas	PAY	See Endnote 6
835.6100	Terrestrial Field Dissipation	TBD	Nufarm Americas	PAY	See Endnote 6
850.1010	Aquatic Invertebrate Acute Toxicity, Freshwater Daphnids	48826501	Nufarm Americas	PAY	See Endnote 7



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EPA Reg. No./File Symbol: 71185-5

Page 3 of 7

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Product: EAC™ Oxytetracycline Manufacturing Use Product

Ingredient: Oxytetracycline Hydrochloride (CAS No. 2058-46-0)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.1025	Oyster Acute Toxicity Test (shell deposition)	48826201	Nufarm Americas	PAY	See Endnote 7
850.1035	Mysid Acute Toxicity Test	48761301	Nufarm Americas	PAY	See Endnote 7
850.1075	Fish Acute Toxicity Test, Freshwater and Marine	48761201 48826201 48826401	Nufarm Americas	PAY	See Endnote 7
850.1300	Daphnid Chronic Toxicity Test	48896901	Nufarm Americas	PAY	See Endnote 7
850.1400	Mysid Chronic Toxicity Test	48826301	Nufarm Americas	PAY	See Endnote 7
850.1500	Fish Life Cycle Toxicity	NA			Not required. See Endnote 8
850.1730	Fish BCF	NA			Not required. See Endnote 9
850.2100	Acute Avian Oral Toxicity Test	41777801	ZOETIS, Inc.	OLD	
850.2200	Acute Avian Dietary Toxicity Test	41777803	ZOETIS, Inc.	OLD	
850.2300	Avian Reproduction Test	48759701 48759501	Nufarm Americas	PAY	See Endnote 7
850.3020	Honeybee Acute Contact Toxicity Test	41777804	ZOETIS, Inc.	OLD	
860.1100	Chemical Identity	43583901	Geo Logic Corp.	OWN	
860.1200	Directions for Use	Label	Geo Logic Corp.	OWN	See Label
860.1300	Nature of the Residue in Plants	NA			waived
860.1340	Residue Analytical Method – Apples, Pears, Peaches & Nectarines	81153 47991601	Nufarm Americas	PAY	See Endnote 10
	Residue Analytical Method – Citrus	49750803	Geo Logic Corp.	OWN	
860.1700	Residue Analytical Enforcement Method – Citrus	49750803			
850.6100	Independent Laboratory Validation (ILV) of Residue Method – Apples and Peaches	48378501	Nufarm Americas	PAY	See Endnote 10
	Independent Laboratory Validation (ILV) of Residue Method – Citrus	49750802	Geo Logic Corp.	OWN	



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DATA MATRIX

Date: December 15, 2017		EPA Reg. No./File Symbol: 71185-5		Page 4 of 7	
Applicant's/Registrant's Name & Address:		Geo Logic Corporation P.O. Box 3091 Tequesta, FL 33469		Product: EAC™ Oxytetracycline Manufacturing Use Product	
Ingredient: Oxytetracycline Hydrochloride (CAS No. 2058-46-0)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1360	Multiresidue Method	NA			waived
860.1380	Storage Stability Data – peaches/pears	00081151	IR-4	PUB	
	Storage Stability Data – apples	44314701	IR-4	PUB	
860.1500	Magnitude of the Residue – Crop Field Trials, Apples	44314701 44314702	IR-4	PUB	
	Magnitude of the Residue – Crop Field Trials, Peaches	47991601	Nufarm Americas	PAY	See Endnote 10
860.1500 & 860.1520	Magnitude of the Residue – Crop Field Trials, Citrus, RAC & Processed Fractions	49750801, 49932301	Geo Logic Corp.	OWN	
860.1550 & 860.1560	Proposed Tolerance and Reasonable Grounds in Support of Petition – Citrus	49750800, 49750804, 50188702	Geo Logic Corp.	OWN	
870.1100	Acute Oral Toxicity	NA		WAIVED	See Endnote 10
870.1200	Acute Dermal Toxicity	NA		WAIVED	See Endnote 10
870.1300	Acute Inhalation Toxicity	NA		WAIVED	See Endnote 10
870.2400	Acute Eye Irritation	NA		WAIVED	See Endnote 10
870.2500	Acute Dermal Irritation	NA		WAIVED	See Endnote 10
870.2600	Skin Sensitization	NA		WAIVED	See Endnote 10
870.3050	Repeated Dose 28-Day Oral Toxicity in Rodents	NA		WAIVED	See Endnote 10
870.3100	90-Day Oral Toxicity in Rodents	NA		WAIVED	See Endnote 10
870.3150	90-Day Oral Toxicity in Nonrodents	NA		WAIVED	See Endnote 10
870.3200	21/28-Day Dermal Toxicity	NA		WAIVED	See Endnote 10
870.3465	90-Day Inhalation Toxicity	NA		WAIVED	See Endnote 10



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DATA MATRIX

Date: December 15, 2017

EPA Reg. No./File Symbol: 71185-5

Page 5 of 7

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.3700	Prenatal Developmental Toxicity Study	NA		WAIVED	See Endnote 10
870.4100	Chronic Toxicity	NA		WAIVED	See Endnote 10
870.3800	Reproduction and Fertility Effects	NA		WAIVED	See Endnote 10
870.4200	Carcinogenicity – mouse	NA		WAIVED	See Endnote 10
870.4200	Carcinogenicity – rat	NA		WAIVED	See Endnote 10
870.4300	Combined Chronic Toxicity/Carcinogenicity	NA		WAIVED	See Endnote 10
870.5100	Bacterial Reverse Mutation Test	NA		WAIVED	See Endnote 10
870.5300	<i>In Vitro</i> Mammalian Cell Gene Mutation Test	NA		WAIVED	See Endnote 10
870.5375	<i>In Vitro</i> Mammalian Chromosome Aberration Test	NA		WAIVED	See Endnote 10
870.5385	Mammalian Bone Marrow Chromosomal Aberration Test	NA		WAIVED	See Endnote 10
870.5395	Mammalian Erythrocyte Micronucleus Test	NA		WAIVED	See Endnote 10
870.6100	Acute Delayed Neurotoxicity – hen	NA		WAIVED	See Endnote 10
870.6200	90-Day Neurotoxicity – rat	NA		WAIVED	See Endnote 10
870.6300	Developmental Neurotoxicity	NA		WAIVED	See Endnote 10
870.7485	Metabolism and Pharmacokinetics	NA		WAIVED	See Endnote 10
870.7600	Dermal Penetration	NA		WAIVED	See Endnote 10
870.7800	Immunotoxicity	48759601	Nufarm Americas	PAY	
N/A	FDA #152 Resistance Risk Assessment for Foliar Applications of FireLine 17 WP (active ingredient, Oxytetracycline Hydrochloride) to Citrus Crops	49750805	Geo Logic Corp.	OWN	



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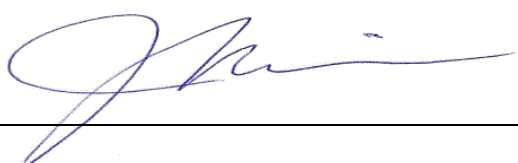
EPA Reg. No./File Symbol: 71185-5

Page 6 of 7

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Product: EAC™ Oxytetracycline Manufacturing Use Product

Ingredient: Oxytetracycline Hydrochloride (CAS No. 2058-46-0)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
N/A	Benefits Discussion and Rationale Supporting the Addition of Citrus Crop Group to the Section 3 Label for FireLine 17 WP (Oxytetracycline Hydrochloride)	49750806	Geo Logic Corp.	OWN	
N/A	FDA #152 Resistance Risk Assessment for Foliar Applications of FireLine 17 WP (Active Ingredient, Oxytetracycline Hydrochloride) to Apples, Pears, Peaches and Nectarines	50188701	Geo Logic Corp.	OWN	
Signature 			Name and Title: James Messina Authorized Representative for Geo Logic Corp.		Date December 15, 2017

Endnotes for Data Matrix for Geo Logic Corp. AgroSource Oxytetracycline Technical Fungicide/Bactericide Agricultural Oxytetracycline

¹ 830.6314 – Not applicable since the product does not contain oxidizing agent.

² 830.6315 – Not applicable since the product does not contain combustible liquids.

³ 830.6316 – Not applicable since the product is not potentially explosive.

⁴ 830.7100 – Not applicable since the product is not a liquid at room temperature.

⁵ 830.7220 – Not applicable since the product is solid at room temperature.

⁶ 835.1230, 835.2120, 835.2240, 835.2410, 835.4100, 835.4200, 835.4300, 835.4400, 835.6100 – Studies for these data requirements submitted by Nufarm Americas and listed on this data matrix as per data compensation agreement between Geo Logic Corp. and Nufarm Americas, signed June 10, 2015.

⁷ 850.1010, 850.1025, 850.1035, 850.1075, 850.1300, 850.1400, 850.2300 – Studies for these data requirements submitted by Nufarm Americas and listed on this data matrix as per data compensation agreement between Geo Logic Corp. and Nufarm Americas, signed June 10, 2015.

⁸ 850.1500 – Not required since the product has low toxicity to fish.

⁹ 850.1730 – Not required because the optimal partition coefficient in water for the product is < 1000.

¹⁰ 870.1100, 870.1200, 870.1300, 870.2400, 870.2500, 870.2600, 870.3050, 870.3100, 870.3150, 870.3200, 870.3465, 870.3700, 870.3800, 870.4100, 870.4200, 870.5100, 870.5300, 870.5375, 870.5385, 870.5395, 870.6100, 870.6200, 870.6300, 870.7485, 870.7600 – These data requirements have been waived by EPA:

- EPA Pesticide Fact Sheet 12/88

<http://pmep.cce.cornell.edu/profiles/fung-nemat/febuconazole-sulfur/oxytetracycline/fung-prof-oxytetracycline.html>

Oxytetracycline, Toxicology Characteristics:

"Oxytetracycline has been used extensively for over 37 years in animals and in man ... As a result of its human drug use, there is an extensive body of toxicological data available on oxytetracycline. Thus, all toxicological data requirements have been waived."

- Health Effects Division (HED) Scoping Document for Registration Review, Oxytetracycline/Oxytetracycline Hydrochloride/Calcium Oxytetracycline, Sept. 12, 2008. <http://www.regulations.gov/#!documentDetail;D=EPA-HQ-OPP-2008-0686-0005>
Data Requirements, Toxicity:

"The toxicity database for oxytetracycline is adequate for the purpose of this risk assessment."